

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

09/068,3770
' ' '/600 -
1/4/04~

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

<u>Effective 12/13/03</u>: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

		SUGGESTED CORRECTION SERIAL NUMBER: 09/068,3770							
	RETECTED	•							
ATTN:	NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE							
I	_Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."							
2	_Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.							
3	_Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.							
4 ~•	_Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.							
5	Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.							
6	_Patentin 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.							
7	_Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped							
		Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.							
8	_Skipped Sequences (NEW RULES)	<210> sequence id number <400> sequence id number							
		000							
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>- 223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.							
10	_Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence							
п <u></u>	_Usc of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)							
2	Patentin 2.0 "bug"	Please do not use "Côpy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.							
13	_ Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>							



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/068,377D
DATE: 01/04/2004
TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
6 <110> APPLICANT: Lasky, Laurence A.
 7 Dowbenko, Donald J.
 9 <120> TITLE OF INVENTION: Tyrosine Phosphorylated Cleavage Furrow-Associated
10 Proteins (PSTPIPs)
12 <130> FILE REFERENCE: P1066P2
                                                            Does Not Comply
14 <140> CURRENT APPLICATION NUMBER: US 09/068,377D
                                                        Corrected Diskette Needed
15 <141> CURRENT FILING DATE: 1998-05-08
17 <150> PRIOR APPLICATION NUMBER: PCT/US98/01774
                                                     pr 6-7
18 <151> PRIOR FILING DATE: 1998-01-30
20 <150> PRIOR APPLICATION NUMBER: US 08/938,830
21 <151> PRIOR FILING DATE: 1997-09-29
23 <150> PRIOR APPLICATION NUMBER: US 08/798,419
24 <151> PRIOR FILING DATE: 1997-02-07
26 <160> NUMBER OF SEQ ID NOS: 76
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 415
30 <212> TYPE: PRT
31 <213> ORGANISM: Mus Musculus
33 <400> SEQUENCE: 1
34 Met Met Ala Gln Leu Gln Phe Arg Asp Ala Phe Trp Cys Arg Asp
   1
37
   Phe Thr Ala His Thr Gly Tyr Glu Val Leu Leu Gln Arg Leu Leu
38
                    20
40 Asp Gly Arg Lys Met Cys Lys Asp Val Glu Glu Leu Leu Arg Gln
41
                    35
                                        40
43 Arg Ala Gln Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile
                    50
                                        55
46 Ala Arg Lys Ala Gly Gly Gln Thr Glu Met Asn Ser Leu Arg Thr
47
                    65
                                       70
49 Ser Phe Asp Ser Leu Lys Gln Gln Thr Glu Asn Val Gly Ser Ala
50
                    80
                                       85
52 His Ile Gln Leu Ala Leu Ala Leu Arg Glu Glu Leu Arg Ser Leu
53
                    95
                                       100
55 Glu Glu Phe Arg Glu Arg Gln Lys Glu Gln Arg Lys Lys Tyr Glu
56
                   110
                                      115
58 Ala Ile Met Asp Arg Val Gln Lys Ser Lys Leu Ser Leu Tyr Lys
59
                   125
                                      130
61 Lys Thr Met Glu Ser Lys Lys Ala Tyr Asp Gln Lys Cys Arg Asp
                   140
                                       145
64 Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg Val Ser Ala Asn Gly
                                      160
                  155
67 His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys Ala Lys Gln Cys
68
                 170 175
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/068,377D**DATE: 01/04/2004 TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\1068377D.raw

```
70
    Lys Glu Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg Gln Asn Ile
71
                                         190
73
    Glu Gln Leu Glu Arg Ala Arg Thr Glu Trp Glu Gln Glu His Arg
74
                     200
                                         205
                                                              210
76
    Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu Thr
77
                     215
                                         220
79
    Ile Leu Arg Asn Ala Leu Trp Val His Cys Asn Gln Leu Ser Met
80
                     230
                                         235
82
    Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr
83
                     245
                                         250
85
    Leu Glu Gly Cys Asp Val Glu Gly Asp Ile Asn Gly Phe Ile Gln
86
                     260
                                         265
88
    Ser Lys Ser Thr Gly Arg Glu Pro Pro Ala Pro Val Pro Tyr Gln
89
                     275
                                         280
    Asn Tyr Tyr Asp Arg Glu Val Thr Pro Leu Ile Gly Ser Pro Ser
91
92
                    290
                                         295
94
    Ile Gln Pro Ser Cys Gly Val Ile Lys Arg Phe Ser Gly Leu Leu
95
                    305
                                         310
97
    His Gly Ser Pro Lys Thr Thr Pro Ser Ala Pro Ala Ala Ser Thr
98
                    320
                                         325
100
     Glu Thr Leu Thr Pro Thr Pro Glu Arg Asn Glu Leu Val Tyr Ala
101
                      335
                                          340
103
     Ser Ile Glu Val Gln Ala Thr Gln Gly Asn Leu Asn Ser Ser Ala
104
                      350
                                          355
106
     Gln Asp Tyr Arg Ala Leu Tyr Asp Tyr Thr Ala Gln Asn Ser Asp
107
                      365
                                          370
109
     Glu Leu Asp Ile Ser Ala Gly Asp Ile Leu Ala Val Ile Leu Glu
110
                     380
                                          385
112
     Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln Arg Gly
113
                     395
                                          400
115
     Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu
116
                      410
118 <210> SEQ ID NO: 2
119 <211> LENGTH: 2100
120 <212> TYPE: DNA
121 <213> ORGANISM: Mus Musculus
123 <400> SEQUENCE: 2
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     agaagaagcg gaaggtctcg agcggcgcca attttaatca aagtgggaat 100
126
     attgctgata gctcattgtc cttcactttc actaacagta gcaacggtcc 150
128
130
     gaacctcata acaactcaaa caaattctca agcgctttca caaccaattg 200
    cctcctctaa cgttcatgat aacttcatga ataatgaaat cacggctagt 250
134
    aaaattgatg atggtaataa ttcaaaacca ctgtcacctg gttggacgga 300
136 ccaaactgcg tataacgcgt ttggaatcac tacagggatg tttaatacca 350
138
    ctacaatgga tgatgtatat aactatctat tcgatgatga agatacccca 400
140
    ccaaacccaa aaaaagaggg tgggtcgacc cacgcgtccg gctccttcct 450
142 ,catttcgctg ctgattctag ccccaaacaa aacaggttga gcctttttcc 500
    tecteeggea gttgeetetg gettgtgget geettetgag egttteagae 550
    ggcgccggct gggagtggga gggagggcct gggctagccg cgctgggact 600
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/068,377D**DATE: 01/04/2004 TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
gggacgtgct cctggctcct ggcccatgct cagccctgct tgaagcagga 650
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152 tecgagatge ettetggtge agggaettea eggeecacae agggtatgag 750
154 gtgctactgc agaggctgct ggacggcagg aagatgtgca aggatgtgga 800
156 ggagctgctc agacagaggg cccaggcgga ggagaggtac gggaaggagc 850
    tggtgcagat tgcacgcaag gctggtggcc agacagagat gaattccctg 900
160 aggacetect ttgactecet gaageageaa acagagaatg tgggeagtge 950
162 acacatccag ctggccctgg ccctgcgtga ggagctgcgg agcctggagg 1000
164
    agttccgaga gagacagaaa gagcagcgga agaagtatga ggccatcatg 1050
166
     gaccgtgtcc agaagagcaa gttgtcgctc tacaagaaga ccatggagtc 1100
168
    caagaaggca tatgaccaga agtgcaggga tgcagatgat gctgagcagg 1150
170
     ccttcgagcg tgtgagtgcc aatggccacc agaagcaagt agaaaagagc 1200
172
     cagaacaaag ccaagcagtg caaggagtca gccacagagg cagaaagagt 1250
174
     gtacaggcaa aatatcgaac aactggagag agcgaggacc gagtgggagc 1300
     aggagcaccg gactacctgt gaggccttcc agttgcagga gtttgaccgg 1350
178
    ctcaccatcc tccgcaatgc cctgtgggtg cactgtaacc agctctccat 1400
    gcagtgtgtc aaggatgatg agctctatga ggaagtgcgg ctgacccttg 1450
180
182
     agggctgtga tgtggaaggt gacatcaatg gcttcatcca gtccaagagc 1500
184 actggcagag agececcage teeggtgeet tateagaact actatgacag 1550
186 ggaggtgacc ccactgattg gcagccctag catccagccc tcctgcggtg 1600
188 tgataaagag gttctctggg ctgctacatg gaagtcccaa gaccacacct 1650
190 tctgctcctg ctgcttccac agagactctg actcccaccc ctgagcggaa 1700
192 tgagttggtc tacgcatcca tcgaagtgca ggcgacccag ggaaacctta 1750
194 acteateage ceaggactae egggeaetet aegactaeae tgeacagaat 1800
196 tetgatgage tggacattte egegggagae ateetggegg teateetgga 1850
198 aggggaggat ggctggtgga ctgtggagcg gaacggacaa cgtggctttg 1900
200 tecetgggte gtaettggag aagetetgag gaaaggetag eagteteeae 1950
202 atacctccgc cctgactgtg aggtcaggac tgtttctttc catcaccgcc 2000
204
     caggeeteae ggggeeagaa eeaageeegg tggtgetggg catgggetgg 2050
206 gtgctggcta ctctcaataa atgtctccca gaaggaaaaa aaaaaaaaa 2100
208 <210> SEQ ID NO: 3
209 <211> LENGTH: 48
210 <212> TYPE: PRT
211 <213> ORGANISM: Mus Musculus
213 <400> SEQUENCE: 3
214
    Leu Tyr Asp Tyr Thr Ala Gln Asn Ser Asp Glu Leu Asp Ile Ser
215
       1
                       5
                                          10
217
    Ala Gly Asp Ile Leu Ala Val Ile Leu Glu Gly Glu Asp Gly Trp
218
220 Trp Thr Val Glu Arg Asn Gly Gln Arg Gly Phe Val Pro Gly Ser
221
223 Tyr Leu Arg
226 <210> SEO ID NO: 4
227 <211> LENGTH: 50
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapien
231 <400> SEQUENCE: 4
232 Leu Tyr Gln Tyr Ile Gly Gln Asp Val Asp Glu Leu Ser Phe Asn
233
```

RAW SEQUENCE LISTING DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:58

Input Set : A:\P1066P2.txt
Output Set: N:\CRF4\01042004\1068377D.raw

```
235 Val Asn Glu Val Ile Glu Ile Leu Ile Glu Asp Ser Ser Gly Trp
236
                                           25
238 Trp Lys Gly Arg Leu His Gly Gln Glu Gly Leu Phe Pro Gly Asn
239
                       35
                                           40
241 Tyr Val Glu Lys Ile
242
244 <210> SEQ ID NO: 5
245 <211> LENGTH: 50
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapien
249 <400> SEQUENCE: 5
250 Leu Tyr Asp Tyr Gln Glu Lys Ser Pro Arg Glu Val Thr Met Lys
251
                       5
                                           10
     Lys Gly Asp Ile Leu Thr Leu Leu Asn Ser Thr Asn Lys Asp Trp
253
254
                      20
                                           25
256
     Trp Lys Val Glu Val Asn Asp Arg Gln Gly Phe Val Pro Ala Ala
257
                      35
                                           40
259
     Tyr Val Lys Lys Leu
260
262 <210> SEQ ID NO: 6
263 <211> LENGTH: 50
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapien
267 <400> SEQUENCE: 6
268 Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu Ser Phe Asp
    Pro Asp Asp Ile Ile Thr Asp Ile Glu Met Val Asp Glu Gly Trp
274
     Trp Arg Gly Gln Cys Arg Gly His Phe Gly Leu Phe Pro Ala Asn
275
                                           40
277
     Tyr Val Lys Leu Leu
278
280 <210> SEQ ID NO: 7
281 <211> LENGTH: 48
282 <212> TYPE: PRT
283 <213> ORGANISM: Homo sapien
285 <400> SEQUENCE: 7
286
    Leu Tyr Asp Tyr Gln Ala Ala Gly Asp Asp Glu Ile Ser Phe Asp
287
     1
                       5
                                          10
                                                               15
    Pro Asp Asp Ile Ile Thr Asn Ile Glu Met Ile Asp Asp Gly Trp
289
290
                      20
                                          25
292
    Trp Arg Gly Val Cys Lys Gly Arg Tyr Gly Leu Phe Pro Ala Asn
293
                      35
                                           40
295 Tyr Val Glu
298 <210> SEQ ID NO: 8
299 <211> LENGTH: 8
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
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RAW SEQUENCE LISTING PATENT APPLICATION: US/09/068,377D DATE: 01/04/2004 TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
304 <223> OTHER INFORMATION: Amino acid epitope tag
306 <400> SEQUENCE: 8
307 Asp Tyr Lys Asp Asp Asp Lys
308
310 <210> SEQ ID NO: 9
311 <211> LENGTH: 33
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Synthetic oligonucleotide probe
318 <400> SEQUENCE: 9
319 cgcggatcca ccatgatggc ccagctgcag ttc 33
321 <210> SEQ ID NO: 10
322 <211> LENGTH: 45
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic oligonucleotide probe
329 <400> SEQUENCE: 10
330 gtacgcgtcg actcacttgt catcgtcgtc cttgtagtcg agctt 45
332 <210> SEQ ID NO: 11
333 <211> LENGTH: 18
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Synthetic oligonucleotide probe
340 <400> SEQUENCE: 11
341 tgcctttctc tccacagg 18
343 <210> SEQ ID NO: 12
344 <211> LENGTH: 36
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Synthetic oligonucleotide probe
351 <400> SEQUENCE: 12
352 ctccttgagg ttctactagt gggggctggt gtcctg 36
354 <210> SEQ ID NO: 13
355 <211> LENGTH: 39
356 <212> TYPE: DNA
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Synthetic oligonucleotide probe
362 <400> SEQUENCE: 13
363 geggeegeac tagtateeag tetgtgetee atetgttae 39
365 <210> SEQ ID NO: 14
366 <211> LENGTH: 17
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial Sequence
370 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/068,377D

DATE: 01/04/2004 TIME: 13:06:59

Input Set : A:\P1066P2.txt

(see p.7)

Output Set: N:\CRF4\01042004\I068377D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; Xaa Pos. 2,3

file://C:\CRF4\Outhold\VsrI068377D.htm

<210> SE	EQ ID NO 27	مَامِ مِنْ	7/ - 9	Eur Sur	La de la	Leet	
<211> LE	ENGTH: 4	su su	milon	was sur	money 25		
<212> TY	YPE: PRT						
<213> OR	RGANISM (Arti:	ficial Sequ	uence				
<220> FE	EATURE:			. 1 -	. 	O/ lain	
<223> OT	THER INFORMAT	ON: Any ar	mino acid	1 this o	Lous mo	. How	_
	EQUENCE: 27				+ /	epplan'	Seguence"
P	Pro(Xaa Xaa)Pi	0			/1	4 H M COM	U
	1						•
	${\cal J}$			see			
	-+1		Lalainin	(p.6)	•	*	
	-/ 2010	Miller X	Luca -	' ' '			

VERIFICATION SUMMARY

DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:59

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

L:711 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:27 L:711 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:27 L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0